October 3, 2001

MODIS sensor Working Group (MsWG) Summary

Attendance: Suraiya Ahmad, Bill Barnes, Vincent Chiang, Roger Drake, Wayne Esaias, Bob Evans, Chris Moeller, Steve Platnick, Vince Salomonson, Gary Toller, Jack Xiong, Eric Vermote, Zhengming Wan, Joe Esposito

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Scheduled Items

FM1 related issues: JX

TEB b1 (TV3 vs TRW)

MCST has received all TRW TV data at hot plateau (except for new Xtalk test)

All TEB gain remain Stable.

B31, B32 gain change change as expected, Tsat from 380°K to about 340°K.

FM1 SRCA Xtalk test concerns (low signal)

Compared to PFM, the DN signal in the SRCA Xtalk is low by a factor of 1/3, whereas other SRCA tests are roughly within 10%.

(**RD**) For the data with phase delay, the test macro ran improperly. Xtalk test will be rerun today.

MCST will analyze the latest Xtalk data when it arrives.

· ***PFM related issues****: JX*

SWIR thermal leak correction assessment (Eric/MCST)

SWIR thermal leak correction inserted into L1B, MCST and Eric Vermote worked together to assess its impact on the scene data.

B27 (one detector) DN_SV is close to 0 (changes to be made)

Band 27 has one detector with DN_SV near zero. Several TEB PV detectors are also very low. MCST plans to change the gain and/or DCR table of some bands in order to avoid DN_SV 0 situation. The Science Team will have to decide if they agree with the changes MCST proposes.

Bob's images from direct broadcast

The problems seen in the Miami images are apparently only within the Direct Broadcast data. Images created with L1A data do not display similar problems.

MCST will look at day 2001268 data when the data arrives from the DAAC.

MCST has not received the data with Itwk/Vdet = 79/110 for Eric Vermote.

(**SA**) They are ready to deliver to MCST (from DAAC)

Around the Table

Participant: Eric Vermote

Thermal leak corrected data:

Analyzed Bands 5, 6, and 7 data over water and vegetation. Granule: 2001192.1345

Over Vegetation – Before: ~ 1% residual; After: negligible residual

Over Water after is much improved by a factor of 2-3, especially for negative values at low radiance.

Overall, reduced subframe difference. The correction is in the right direction.

(**JX**) MCST uses a linear correction but could include a sub-frame dependant offset in the correction.

(**CM/SP**) Should look at data over the polar region and at bright cirrus clouds to increase the dynamic range. Band 26 also displays favorable results after the correction.

Participant: Steve Platnick

Will the gain table for the B5 change be installed during the FM1 Xtalk testing?

(**RD**) Too late for TRW Xtalk testing. We will have new flight software before launch.

(**BB**) Can pre-launch test be made with the new software?

(**RD**) Yes, we can look at the response before and after. Since the Xtalk is on the FPA and the pre-amps are off the FPA there is no impact on the Xtalk testing. It is better to use the Xtalk test in TV with SpMA; this will yield more information.

Participant: Chris Moeller

We are going to start looking at re-normalizing within bands.

(**BB**) Would normalizing the bands onboard using gain adjustment be reasonable?

(**BE/WE et.al.**) Yes, but adjusting radiances in L1B can produce an impact, we should look at L1A data. Geolocation (e.g. altitude, scan angles) dependent correction need to be considered. There may be pitfalls normalizing and getting coefficients from L1A.

Participant: Suraiya Ahmad: Processing Status

Forward Processing: 2001265 (12-SEP-2001

Reprocessing 2000329 (24-NOV-2000)

Hawaii data has not been processed yet.

Participant: Bill Barnes: **No meeting next week, 10-OCT-2001**

Compiled by J. A. Esposito 3 October, 2001